Electromagnetic spectrum theory

Cherenkov radiation, light produced by charged particles when they pass through an optically transparent medium at speeds greater than the speed of light in that medium. The phenomenon was discovered by the Soviet ...

Credit: NASA/JPL-Caltech Explore the "Magic Windows" of the electromagnetic spectrum below! Radio Waves Credit: NASA/JPL-Caltech Radio waves are very long and not very energetic. Radio waves can be from about ...

Visible light and the other components of the electromagnetic spectrum According to the theory of relativity, the velocity of light is a fixed quantity independent of the velocity of the emitter, the absorber, or a ...

Electromagnetism - Special Relativity, Lorentz Transformations, Electrodynamics: The other major conceptual advance in electromagnetic theory was the special theory of relativity. In Maxwell"s time, a mechanistic view of ...

The Electromagnetic Theory for GATE course by EduRev is designed specifically for GATE Physics aspirants. It covers all the essential topics and concepts related to electromagnetic theory that are crucial for the GATE ...

The electromagnetic field is a combination of electrical and magnetic phenomena that exist in space and it is also created by the motion of charges (electric field) which creates a magnetic field. In simple terminology ...

This Electromagnetics Field Course for Electrical Engineering (EE) offered by EduRev is designed to provide an in-depth understanding of electromagnetic theory and its applications in electrical engineering. This ...

Planck"s radiation law, a mathematical relationship formulated in 1900 by German physicist Max Planck to explain the spectral-energy distribution of radiation emitted by a ...

Blackbody radiation, energy radiated by any object or system that absorbs all incident radiation. The term usually refers to the spectrum of light emitted by any heated object; common examples include the heating element ...

EduRev"s Electromagnetic Fields Theory (EMFT) Course for Electrical Engineering (EE) is designed to provide students with a comprehensive understanding of the fundamental concepts of EMFT. This course covers ...

Color, the aspect of any object that may be described in terms of hue, lightness, and saturation. In physics,

color is associated specifically with electromagnetic radiation of a certain range of wavelengths visible to the ...

Summary Electromagnetic radiation behaves like waves of energy most of the time, but sometimes it behaves like particles. From the 1600s until the early 1900s, most scientists thought that electromagnetic radiation consists ...

James Clerk Maxwell, Scottish physicist best known for his formulation of electromagnetic theory. He is regarded by most modern physicists as the scientist of the 19th century who had the greatest influence on 20th ...

Einstein"s special relativity theory merged electric and magnetic fields into one common field and limited the velocity of all matter to the velocity of electromagnetic radiation. During the late 1960s, physicists discovered that ...

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